

DADOS TÉCNICOS

Material: SMOOTH LINER SPECIFICATION

GAMA: GEOMENBRANAS



www.easy.co.mz geral@easy.co.mz

Properties	Units	Test Method	Test Frequency (1)	Min Average Values				
Thickness. Minimum Avg.(4)	mm	ASTM D 5199	Per roll	1	1.5	2	2.5	3
Formulated Density	g/cc	ASTM D 792	90 000kg/ approx. every 60 rolls	≥0.94	≥0.94	≥0.94	≥0.94	≥0.94
Tensile Properties - Minimum Avg. (2) Yield Strength Yield Elongation Break Strength Break Elongation	kN/m % kN/m %	ASTM D 6693 Type IV Dogbone	9 000kg / approx. every 5 rolls	15 12 27 700	22 12 40 700	29 12 53 700	37 12 67 700	44 12 80 700
Tear Resistance. Minimum Avg.	N	ASTM D 1004	20 000kg / approx. every 12 rolls	125	187	249	311	374
Puncture Resistance. Minimum Avg.	N	ASTM D 4833	20 000kg/ approx. every 12 rolls	320	480	640	800	960
Dimensional Stability	%	ASTM D 1204		±2	±2	±2	±2	±2
Rapid tensile test (300mm/min)	visual	ASTM D6693	90 000kg / approx. every 60 rolls	No Separation Visible				
Carbon Black Content	%	ASTM D 4218	9 000kg / approx. every 5 rolls	2-3	2-3	2-3	2-3	2-3
Carbon Black Dispersion	Category	ASTM D 5596	20 000kg / approx. every 12 rolls	cat.1 or cat.2	cat.1 or cat.2	cat.1 or cat.2	cat.1 or cat.2	cat.1 or cat.2
Oxidative Induction Time (OIT) (min. avg.) (3) Standard OIT — or —	minutes	ASTM D 3895	90 000kg / approx. every 60 rolls	100	100	100	100	100
High Pressure OIT	minutes	ASTM D 5885	372	400	400	400	400	400
Stress Crack Resistance (SP - NCTL)	Hours	ASTM D 5397 Appendix	180 000kg / approx. every 110 rolls	500	500	500	500	500
Oven Aging at 85°C Standard OIT (min. avg.) retained after 90 days — or —	%	ASTM D 5721 ASTM D 3895	Per Formulation	55	55	55	55	55
High Pressure OIT (min. avg.) retained after 90 days	%	ASTM D 5885		80	80	80	80	80
UV Resistance - % retained after 1600 hrs. High Pressure OIT (min. avg.)	%	ASTM D 7238 ASTM D 5885	Per Formulation	50	50	50	50	50

- 1) Based on Standard Roll dimensions. One bacth is aprprox. 180 000kg or 2 railcars.
- 2) Tensile results based on Avg values of MD and TD. 5 specimens in each direction.
- 3) Manufacturer has the right to select either test method to evaluate OIT.
- 4) Lowest Individual of 10 Values = 10% All Values are nominal, except when Specified as maximum or minimum.